



# CALIFORNIA

## Agricultural Bulletin

**EDD** Employment  
Development  
Department  
State of California

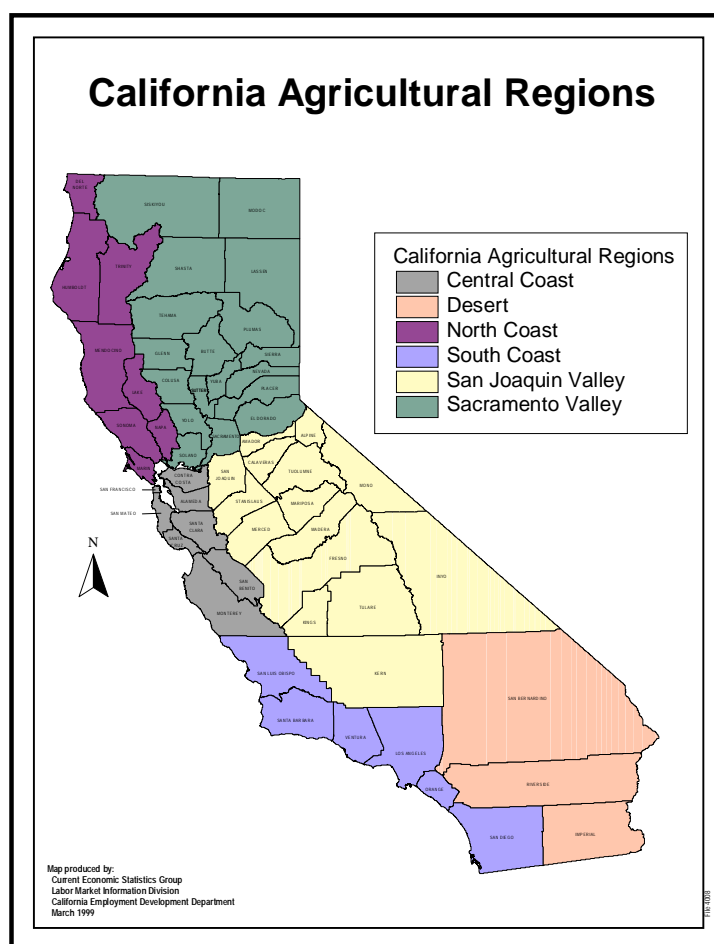
May 1999  
(Internet Version)

### Agricultural Overview

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This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

**LMID**  
Labor Market Information Division  
"Your Information Source"

## Introduction

The May 1999 issue is the fifth California Agricultural Bulletin produced since December 1996. Prior to January 1997, the U.S. Department of Agriculture (USDA) and the Employment Development Department (EDD) conducted separate, overlapping agricultural labor surveys.

Beginning with January 1997 data, EDD in cooperation with the USDA and through a grant from the U.S. Department of Labor has instituted new methods to estimate current agricultural employment, as well as earnings and hours worked based on sampling according to a probabilistic model of selection. EDD will continue to benchmark agricultural employment data yearly. As a result of changes in sampling and estimating procedures, farm employment data prior to January 1997 may not be strictly comparable to current estimates.

## Summary

California agricultural employment for May 1999 registered an increase of 75,000 jobs from the previous month, a gain of 21 percent. This was a normal seasonal increase. The change from April 1998 to May 1998 was an increase of 67,600 jobs. Over the month, Production/Crops increased by 29,500 jobs, a gain of 16 percent, while Production/Livestock registered a decrease of 5,400, a loss of 21 percent. Agricultural Services registered an increase of 50,900 jobs, a gain of 36 percent. Total California Agricultural Employment for May 1999 increased 3,000 jobs from the May 1998 level.

The San Joaquin Valley Region registered an increase of 44,100 jobs from April to May. Agricultural Production increased by 28 percent and Agricultural Services increased 24 percent from the previous month in this region.

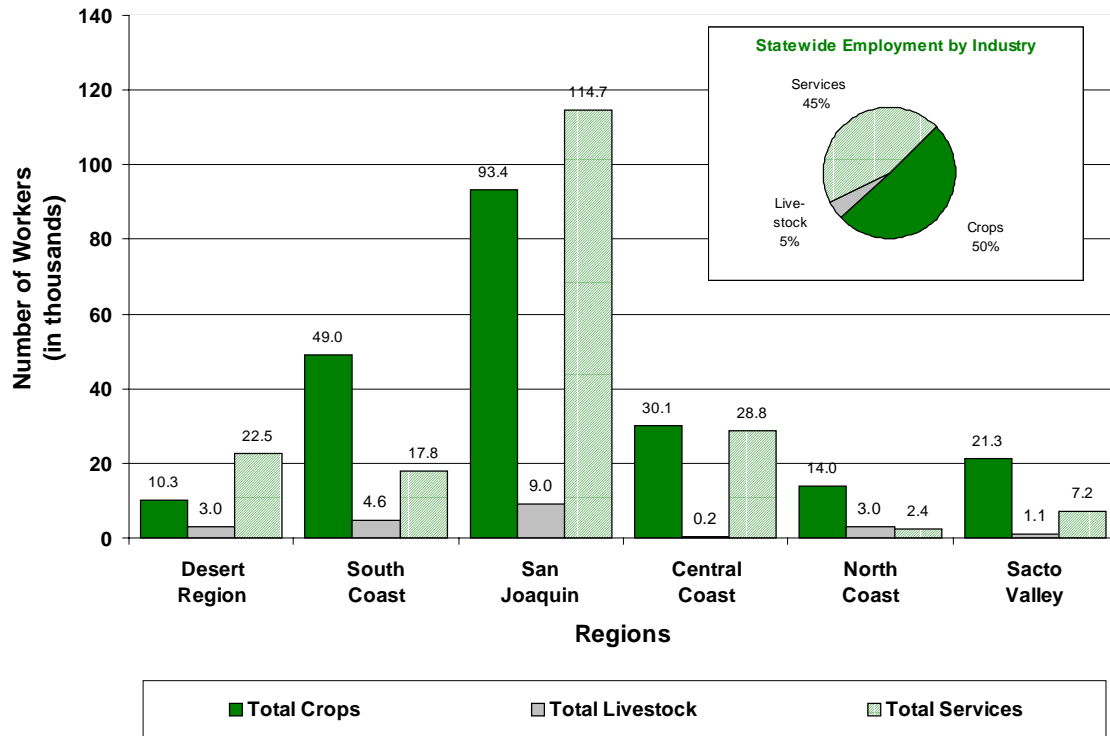
Field activities progressed normally under favorable conditions in most areas. Workers planted corn, blackeye beans, fresh market tomatoes, melons, sweet potatoes, sweet corn, and snap beans. Rice planting was completed in the Sacramento Valley and cotton planting was completed in the San Joaquin Valley. Developing rice fields were sprayed for weeds and water weevils. Aphid, lygus and mite treatments were applied to alfalfa hay fields. Corn, sudangrass, and alfalfa were sprayed for broadleaf weeds. Small grains and winter forages were cut for hay. Work crews harvested wheat grain, sugarbeets, artichokes, cauliflower, broccoli, cabbage, cilantro, leeks, potatoes, turnips, cantaloupes, mixed melons, and various greens.

Fruit thinning was active in later stone fruit varieties and work crews were actively picking apricots, cherries, early varieties of nectarines, and peaches. Almond growers applied fungicides and miticides to orchards. Tree limbs were propped to support the heavy nut set. Citrus fruit was picked in southern California. Grape growers applied sulfur and insecticide to control mildew and insects. Other cultural activities included extensive weed control and irrigation.

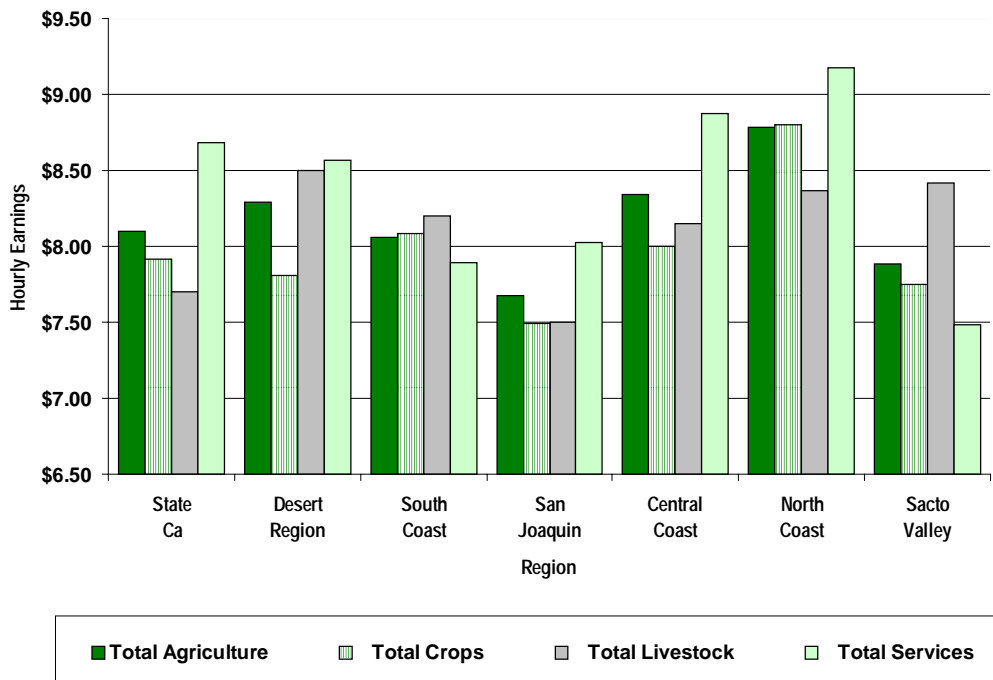
Livestock workers were heavily involved in moving cattle and sheep from drying rangeland pastures to auctions.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>433.2</b>	<b>358.2</b>	<b>429.9</b>
<b>Total Agricultural Production/Crops</b>	<b>218.9</b>	<b>189.4</b>	<b>214.3</b>
Cash Grains	2.1	2.4	3.3
Rice	1.2	1.4	2.2
Other Cash Grains	0.9	1	1.1
Field Crops Except Grains	15.5	13.7	12.7
Cotton	5.9	5.2	6.5
Other Field Crops	9.6	8.5	6.2
Vegetables and Melons	51.1	39.0	34.9
Total Fruits and Tree Nuts	88.7	70.7	98.2
Berries	24.1	16.3	25.6
Grapes	25	14.9	37.3
Tree Nuts	7.4	7.9	7.1
Citrus Fruits	2.3	3.3	4.6
Deciduous Tree Fruit	11.5	10.5	15.3
Other Fruits & Nuts	18.4	17.8	8.3
Total Horticultural Specialties	30.3	32.9	37.7
Ornamental Floral & Nursery	28.5	31.6	31.1
Food Crops Grown Under Cover	1.8	1.3	6.6
General Farm Primarily Crop	31.2	30.7	27.5
<b>Agricultural Production/Livestock</b>	<b>20.9</b>	<b>26.3</b>	<b>26.7</b>
Beef Cattle Feed Lots	1.4	0.7	0.5
Beef Cattle Except Feed Lots	1.1	1	3.3
Dairy Farms	7.3	11.8	14.9
Chicken Eggs	0.7	1.1	2.3
Turkey & Turkey Eggs	0.4	0.6	0.8
Other Livestock	10	11.1	4.9
<b>Total Agricultural Services</b>	<b>193.4</b>	<b>142.5</b>	<b>188.9</b>
Soil Preparation Services	1.7	0.9	2.1
Crop Services	46.0	37.3	50.0
Plant Cultivate & Protection	5.1	4.3	7.5
Harvest Primarily by Machine	7.6	3.8	7
Preparation Services for Market	32.9	28.9	34.9
Cotton Ginning	0.4	0.3	0.6
Total Farm Labor & Management	145.7	104.3	136.8
Farm Labor Contractors	138.7	98.6	128.2
Farm Management Services	7	5.7	8.6

Average Hourly Earnings  
(In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>8.10</b>	<b>7.98</b>	<b>7.42</b>
<b>Total Agricultural Production/Crops</b>	<b>7.92</b>	<b>7.91</b>	<b>7.06</b>
Cash Grains	7.89	7.84	7.13
Rice	8.01	8.03	7.15
Other Cash Grains	7.78	7.65	7.11
Field Crops Except Grains	7.76	7.73	6.72
Cotton	7.48	7.54	6.64
Other Field Crops	8.03	7.91	6.79
Vegetables and Melons	8.06	8.17	7.48
Total Fruits and Tree Nuts	7.81	7.68	6.80
Berries	8.34	6.80	6.85
Grapes	7.73	8.28	6.94
Tree Nuts	7.56	7.49	6.68
Citrus Fruits	8.38	8.31	7.30
Deciduous Tree Fruit	7.15	7.10	6.36
Other Fruits & Nuts	7.68	8.12	6.67
Total Horticultural Specialties	8.18	8.15	7.58
Ornamental Floral & Nursery	8.41	8.31	7.11
Food Crops Grown Under Cover	7.95	8.00	8.05
General Farm Primarily Crop	7.81	7.87	6.68
<b>Agricultural Production/Livestock</b>	<b>7.70</b>	<b>7.58</b>	<b>7.51</b>
Beef Cattle Feed Lots	8.60	7.94	7.15
Beef Cattle Except Feed Lots	8.17	8.19	8.18
Dairy Farms	8.85	8.61	7.79
Chicken Eggs	6.27	6.38	6.97
Turkey & Turkey Eggs	6.03	6.10	7.58
Other Livestock	8.29	8.25	7.42
<b>Total Agricultural Services</b>	<b>8.69</b>	<b>8.45</b>	<b>7.69</b>
Soil Preparation Services	9.39	9.17	8.68
Crop Services	8.83	8.52	7.69
Plant Cultivate & Protection	8.59	8.66	7.54
Harvest Primarily by Machine	8.45	8.38	7.87
Preparation Services for Market	8.08	7.76	7.44
Cotton Ginning	10.19	9.30	7.90
Total Farm Labor & Management	7.84	7.67	6.69
Farm Labor Contractors	7.27	7.13	6.52
Farm Management Services	8.41	8.22	6.86

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>59.1</b>	<b>48.8</b>	<b>63.0</b>
<b>Total Agricultural Products/Crops</b>	<b>30.1</b>	<b>30.8</b>	<b>38.6</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.9	1.5	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	0.9	1.5	0.2
Vegetables and Melons	8.6	11.7	14.4
Total Fruits and Tree Nuts	8.4	6.1	12.7
Berries	7.8	5.3	10.7
Grapes	0.1	0.0	1.2
Tree Nuts	0.3	0.5	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.2	0.1	0.4
Other Fruits & Nuts	0.0	0.2	0.2
Total Horticultural Specialties	9.2	9.7	9.1
Ornamental Floral & Nursery	8.9	9.4	7.0
Food Crops Grown Under Cover	0.3	0.3	2.1
General Farm Primarily Crop	3.0	1.8	2.2
<b>Agricultural Production/Livestock</b>	<b>0.2</b>	<b>0.2</b>	<b>1.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.2	0.2	0.3
<b>Total Agricultural Services</b>	<b>28.8</b>	<b>17.8</b>	<b>23.4</b>
Soil Preparation Services	0.5	0.1	1.0
Crop Services	11.3	7.5	10.1
Plant Cultivate & Protection	0.0	0.0	0.8
Harvest Primarily by Machine	4.0	1.3	1.7
Preparation Services for Market	7.3	6.2	7.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	17.0	10.2	12.3
Farm Labor Contractors	16.2	9.7	11.4
Farm Management Services	0.8	0.5	0.9

na = not available

Average Hourly Earnings  
(In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>8.34</b>	<b>8.42</b>	<b>7.70</b>
<b>Total Agricultural Products/Crops</b>	<b>8.00</b>	<b>8.08</b>	<b>7.54</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	8.23	7.37	6.65
Cotton	na	na	na
Other Field Crops	8.23	7.37	6.65
Vegetables and Melons	8.22	9.02	8.00
Total Fruits and Tree Nuts	7.79	8.01	7.20
Berries	7.97	6.77	7.25
Grapes	7.40	na	6.75
Tree Nuts	7.77	7.92	7.40
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.02	7.94	6.80
Other Fruits & Nuts	na	9.42	7.78
Total Horticultural Specialties	8.37	8.46	7.78
Ornamental Floral & Nursery	8.24	8.46	7.15
Food Crops Grown Under Cover	8.49	8.45	8.40
General Farm Primarily Crop	7.38	7.54	7.20
<b>Agricultural Production/Livestock</b>	<b>8.15</b>	<b>8.49</b>	<b>7.62</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.00
Dairy Farms	na	na	7.90
Chicken Eggs	na	na	7.00
Turkey & Turkey Eggs	na	na	7.55
Other Livestock	8.15	8.49	7.65
<b>Total Agricultural Services</b>	<b>8.88</b>	<b>8.70</b>	<b>7.94</b>
Soil Preparation Services	9.51	9.41	8.75
Crop Services	8.97	8.77	8.01
Plant Cultivate & Protection	na	na	7.72
Harvest Primarily by Machine	9.18	8.79	8.05
Preparation Services for Market	8.75	8.75	8.25
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.15	7.93	7.08
Farm Labor Contractors	6.95	7.06	6.95
Farm Management Services	9.35	8.79	7.20

# DESERT AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>35.8</b>	<b>36.3</b>	<b>43.2</b>
<b>Total Agricultural Production/Crops</b>	<b>10.3</b>	<b>17.1</b>	<b>14.4</b>
Cash Grains	0.0	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.1
Field Crops Except Grains	1.3	1.5	1.7
Cotton	0.2	0.1	0.0
Other Field Crops	1.1	1.4	1.7
Vegetables and Melons	0.4	3.0	2.7
Total Fruits and Tree Nuts	5.9	5.2	5.5
Berries	0.0	0.0	0.2
Grapes	0.6	0.5	3.4
Tree Nuts	0.1	0.2	0.1
Citrus Fruits	0.0	0.9	0.5
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	5.2	3.6	1.2
Total Horticultural Specialties	0.7	1.2	4.1
Ornamental Floral & Nursery	0.7	1.2	1.1
Food Crops Grown Under Cover	0.0	0.0	3.0
General Farm Primarily Crop	2.0	6.2	0.3
<b>Agricultural Production/Livestock</b>	<b>3.0</b>	<b>4.0</b>	<b>5.5</b>
Beef Cattle Feed Lots	0.2	0.2	0.3
Beef Cattle Except Feed Lots	0.1	0.1	0.5
Dairy Farms	1.3	2.5	2.8
Chicken Eggs	0.0	0.4	1.2
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	1.4	0.8	0.7
<b>Total Agricultural Services</b>	<b>22.5</b>	<b>15.2</b>	<b>23.3</b>
Soil Preparation Services	0.3	0.3	0.2
Crop Services	1.5	4.4	7.1
Plant Cultivate & Protection	0.9	0.9	0.8
Harvest Primarily by Machine	0.6	0.0	1.7
Preparation Services for Market	0.0	3.5	4.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	20.7	10.5	16.0
Farm Labor Contractors	19.6	9.5	15.1
Farm Management Services	1.1	1.0	0.9

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>8.29</b>	<b>8.03</b>	<b>7.21</b>
<b>Total Agricultural Production/Crops</b>	<b>7.81</b>	<b>7.78</b>	<b>6.82</b>
Cash Grains	na	na	6.85
Rice	na	na	na
Other Cash Grains	na	na	6.85
Field Crops Except Grains	8.09	7.51	6.60
Cotton	8.24	6.65	na
Other Field Crops	7.93	8.36	6.60
Vegetables and Melons	6.93	7.21	6.76
Total Fruits and Tree Nuts	7.64	7.86	6.47
Berries	na	na	6.35
Grapes	7.33	8.44	6.75
Tree Nuts	7.00	6.81	6.15
Citrus Fruits	na	7.44	7.05
Deciduous Tree Fruit	na	na	6.25
Other Fruits & Nuts	8.58	8.73	6.25
Total Horticultural Specialties	8.49	8.54	7.20
Ornamental Floral & Nursery	8.49	8.54	6.40
Food Crops Grown Under Cover	na	na	8.00
General Farm Primarily Crop	7.90	7.79	7.05
<b>Agricultural Production/Livestock</b>	<b>8.50</b>	<b>8.12</b>	<b>7.59</b>
Beef Cattle Feed Lots	7.25	6.92	7.00
Beef Cattle Except Feed Lots	8.54	8.54	8.00
Dairy Farms	9.71	9.68	9.00
Chicken Eggs	na	6.70	6.85
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.50	8.74	7.10
<b>Total Agricultural Services</b>	<b>8.57</b>	<b>8.20</b>	<b>7.22</b>
Soil Preparation Services	9.70	9.65	8.45
Crop Services	8.41	7.83	6.64
Plant Cultivate & Protection	8.89	8.68	6.70
Harvest Primarily by Machine	7.92	na	6.50
Preparation Services for Market	na	6.98	6.73
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.60	7.12	6.58
Farm Labor Contractors	8.08	7.08	6.55
Farm Management Services	7.11	7.15	6.60

# NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>19.4</b>	<b>14.1</b>	<b>15.0</b>
<b>Total Agricultural Production/Crops</b>	<b>14.0</b>	<b>11.1</b>	<b>11.4</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.0
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.0
Vegetables and Melons	6.7	5.6	0.3
Total Fruits and Tree Nuts	6.4	4.6	9.0
Berries	0.0	0.0	0.0
Grapes	5.8	3.9	8.1
Tree Nuts	0.0	0.0	0.0
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.6	0.5	0.7
Other Fruits & Nuts	0.0	0.2	0.2
Total Horticultural Specialties	0.8	0.8	1.8
Ornamental Floral & Nursery	0.8	0.8	1.6
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.1	0.1	0.3
<b>Agricultural Production/Livestock</b>	<b>3.0</b>	<b>2.2</b>	<b>1.5</b>
Beef Cattle Feed Lots	0.1	0.0	0.0
Beef Cattle Except Feed Lots	0.2	0.0	0.2
Dairy Farms	0.9	0.9	0.9
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	1.8	1.3	0.3
<b>Total Agricultural Services</b>	<b>2.4</b>	<b>0.8</b>	<b>2.1</b>
Soil Preparation Services	0.2	0.0	0.0
Crop Services	0.2	0.1	0.1
Plant Cultivate & Protection	0.0	0.0	0.0
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.2	0.1	0.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.0	0.7	2.0
Farm Labor Contractors	0.8	0.0	0.6
Farm Management Services	1.2	0.7	1.4

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>8.78</b>	<b>8.28</b>	<b>7.43</b>
<b>Total Agricultural Production/Crops</b>	<b>8.80</b>	<b>8.82</b>	<b>7.22</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	na
Cotton	na	na	na
Other Field Crops	na	na	na
Vegetables and Melons	9.86	9.83	8.15
Total Fruits and Tree Nuts	7.93	8.38	7.11
Berries	na	na	na
Grapes	8.70	9.58	8.10
Tree Nuts	na	na	6.90
Citrus Fruits	na	na	na
Deciduous Tree Fruit	7.15	7.92	7.10
Other Fruits & Nuts	na	7.63	6.35
Total Horticultural Specialties	8.53	8.12	7.35
Ornamental Floral & Nursery	8.53	8.12	7.00
Food Crops Grown Under Cover	na	na	7.70
General Farm Primarily Crop	8.90	8.95	6.25
<b>Agricultural Production/Livestock</b>	<b>8.37</b>	<b>7.54</b>	<b>7.70</b>
Beef Cattle Feed Lots	9.47	na	na
Beef Cattle Except Feed Lots	7.83	na	8.30
Dairy Farms	8.14	7.39	6.75
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	7.75
Other Livestock	8.04	7.69	8.00
<b>Total Agricultural Services</b>	<b>9.18</b>	<b>8.47</b>	<b>7.38</b>
Soil Preparation Services	9.99	na	na
Crop Services	8.55	7.50	7.50
Plant Cultivate & Protection	na	na	na
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	8.55	7.50	7.50
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.99	9.44	7.25
Farm Labor Contractors	8.31	na	6.50
Farm Management Services	9.66	9.44	8.00

na = not available

# SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>71.4</b>	<b>61.3</b>	<b>67.5</b>
<b>Total Agricultural Production/Crops</b>	<b>49.0</b>	<b>44.6</b>	<b>49.1</b>
Cash Grains	0.1	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.1	0.1
Field Crops Except Grains	0.3	0.3	0.3
Cotton	0.0	0.0	0.1
Other Field Crops	0.3	0.3	0.2
Vegetables and Melons	5.3	7.8	7.5
Total Fruits and Tree Nuts	24.1	17.3	20.2
Berries	16.3	11.0	14.2
Grapes	0.7	0.8	2.1
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	1.3	1.1	1.9
Deciduous Tree Fruit	0.2	0.1	0.2
Other Fruits & Nuts	5.6	4.3	1.7
Total Horticultural Specialties	15.1	15.5	16.9
Ornamental Floral & Nursery	14.4	15.1	16.0
Food Crops Grown Under Cover	0.7	0.4	0.9
General Farm Primarily Crop	4.1	3.6	4.1
<b>Agricultural Production/Livestock</b>	<b>4.6</b>	<b>4.4</b>	<b>1.9</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.1	0.1	0.3
Dairy Farms	0.0	0.0	0.2
Chicken Eggs	0.2	0.2	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	4.3	4.1	1.0
<b>Total Agricultural Services</b>	<b>17.8</b>	<b>12.3</b>	<b>16.5</b>
Soil Preparation Services	0.0	0.0	0.2
Crop Services	4.3	1.9	4.0
Plant Cultivate & Protection	0.2	0.2	0.6
Harvest Primarily by Machine	0.2	0.2	0.8
Preparation Services for Market	3.9	1.5	2.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	13.5	10.4	12.3
Farm Labor Contractors	12.0	9.6	11.0
Farm Management Services	1.5	0.8	1.3

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>8.06</b>	<b>7.97</b>	<b>7.46</b>
<b>Total Agricultural Production/Crops</b>	<b>8.08</b>	<b>7.94</b>	<b>7.06</b>
Cash Grains	7.89	8.76	6.70
Rice	na	na	na
Other Cash Grains	7.89	8.76	6.70
Field Crops Except Grains	8.21	7.61	6.70
Cotton	na	na	6.65
Other Field Crops	8.21	7.61	6.75
Vegetables and Melons	8.18	7.48	7.25
Total Fruits and Tree Nuts	8.15	8.11	6.86
Berries	8.70	6.83	7.15
Grapes	8.71	9.62	6.70
Tree Nuts	na	na	6.80
Citrus Fruits	8.29	9.19	7.75
Deciduous Tree Fruit	6.90	5.98	6.00
Other Fruits & Nuts	8.14	8.92	6.75
Total Horticultural Specialties	8.28	8.33	7.69
Ornamental Floral & Nursery	8.40	7.96	6.93
Food Crops Grown Under Cover	8.15	8.69	8.45
General Farm Primarily Crop	7.79	7.37	6.80
<b>Agricultural Production/Livestock</b>	<b>8.20</b>	<b>8.10</b>	<b>7.79</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.63	8.41	7.75
Dairy Farms	na	na	8.40
Chicken Eggs	5.88	5.80	6.90
Turkey & Turkey Eggs	na	na	na
Other Livestock	10.10	10.10	8.10
<b>Total Agricultural Services</b>	<b>7.89</b>	<b>7.88</b>	<b>7.54</b>
Soil Preparation Services	na	na	8.25
Crop Services	8.07	8.05	7.65
Plant Cultivate & Protection	8.49	8.45	7.40
Harvest Primarily by Machine	7.75	7.75	7.80
Preparation Services for Market	7.96	7.95	7.75
Cotton Ginning	na	na	na
Total Farm Labor & Management	7.72	7.71	6.73
Farm Labor Contractors	7.41	7.47	6.75
Farm Management Services	8.02	7.94	6.70

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers  
(In Thousands)

Average Hourly Earnings  
(In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>217.1</b>	<b>172.3</b>	<b>212.5</b>
<b>Total Agricultural Production/Crops</b>	<b>93.4</b>	<b>65.8</b>	<b>81.3</b>
Cash Grains	0.6	0.9	0.6
Rice	0.1	0.3	0.1
Other Cash Grains	0.5	0.6	0.5
Field Crops Except Grains	10.0	7.8	9.4
Cotton	4.5	5.1	6.4
Other Field Crops	5.5	2.7	3.0
Vegetables and Melons	25.3	8.6	7.3
Total Fruits and Tree Nuts	36.6	27.3	43.3
Berries	0.0	0.0	0.5
Grapes	16.8	9.3	21.6
Tree Nuts	4.8	4.2	4.5
Citrus Fruits	1.0	1.3	2.2
Deciduous Tree Fruit	6.8	8.1	10.5
Other Fruits & Nuts	7.2	4.4	4.0
Total Horticultural Specialties	2.5	4.5	3.9
Ornamental Floral & Nursery	2.5	4.5	3.7
Food Crops Grown Under Cover	0.8	0.6	0.2
General Farm Primarily Crop	18.4	16.7	16.8
<b>Agricultural Production/Livestock</b>	<b>9.0</b>	<b>14.3</b>	<b>15.1</b>
Beef Cattle Feed Lots	1.0	0.4	0.2
Beef Cattle Except Feed Lots	0.4	0.2	1.3
Dairy Farms	4.8	8.2	10.4
Chicken Eggs	0.5	0.5	0.6
Turkey & Turkey Eggs	0.4	0.6	0.6
Other Livestock	1.9	4.4	2.0
<b>Total Agricultural Services</b>	<b>114.7</b>	<b>92.2</b>	<b>116.1</b>
Soil Preparation Services	0.7	0.5	0.6
Crop Services	26.1	21.7	26.2
Plant Cultivate & Protection	3.0	2.8	4.6
Harvest Primarily by Machine	2.8	2.3	2.5
Preparation Services for Market	19.9	16.3	18.5
Cotton Ginning	0.4	0.3	0.6
Total Farm Labor & Management	87.9	70.0	89.3
Farm Labor Contractors	85.5	67.3	85.6
Farm Management Services	2.4	2.7	3.7

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>7.67</b>	<b>7.69</b>	<b>7.51</b>
<b>Total Agricultural Production/Crops</b>	<b>7.49</b>	<b>7.66</b>	<b>6.95</b>
Cash Grains	7.78	7.38	7.25
Rice	7.85	7.63	7.00
Other Cash Grains	7.70	7.13	7.50
Field Crops Except Grains	7.62	8.07	6.69
Cotton	7.67	8.43	6.63
Other Field Crops	7.56	7.70	6.75
Vegetables and Melons	7.22	7.58	7.03
Total Fruits and Tree Nuts	7.28	7.31	6.48
Berries	na	na	6.66
Grapes	6.36	7.24	6.61
Tree Nuts	7.45	7.29	6.35
Citrus Fruits	8.47	8.31	7.10
Deciduous Tree Fruit	6.75	6.60	5.65
Other Fruits & Nuts	7.35	7.10	6.50
Total Horticultural Specialties	8.02	7.81	7.93
Ornamental Floral & Nursery	8.82	8.77	7.90
Food Crops Grown Under Cover	7.22	6.85	7.95
General Farm Primarily Crop	7.06	7.81	6.35
<b>Agricultural Production/Livestock</b>	<b>7.50</b>	<b>7.39</b>	<b>7.56</b>
Beef Cattle Feed Lots	8.63	8.24	7.30
Beef Cattle Except Feed Lots	7.44	7.26	8.75
Dairy Farms	8.74	8.61	7.90
Chicken Eggs	6.66	6.64	7.13
Turkey & Turkey Eggs	6.03	6.10	7.45
Other Livestock	7.51	7.46	6.80
<b>Total Agricultural Services</b>	<b>8.03</b>	<b>8.01</b>	<b>8.03</b>
Soil Preparation Services	8.35	8.44	9.70
Crop Services	8.57	8.43	7.94
Plant Cultivate & Protection	7.79	8.31	7.90
Harvest Primarily by Machine	8.95	8.61	9.00
Preparation Services for Market	7.33	7.50	6.95
Cotton Ginning	10.19	9.30	7.90
Total Farm Labor & Management	7.17	7.17	6.45
Farm Labor Contractors	6.40	6.55	6.25
Farm Management Services	7.93	7.78	6.65

na = not available

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>29.6</b>	<b>24.8</b>	<b>28.7</b>
<b>Total Agricultural Production/Crops</b>	<b>21.3</b>	<b>19.4</b>	<b>19.5</b>
Cash Grains	1.4	1.4	2.5
Rice	1.1	1.1	2.1
Other Cash Grains	0.3	0.3	0.4
Field Crops Except Grains	3.0	2.6	1.1
Cotton	1.2	0.0	0.0
Other Field Crops	1.8	2.6	1.1
Vegetables and Melons	4.8	2.3	2.7
Total Fruits and Tree Nuts	7.3	10.2	7.5
Berries	0.0	0.0	0.0
Grapes	1.0	0.4	0.9
Tree Nuts	2.2	3.0	2.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	3.7	1.7	3.4
Other Fruits & Nuts	0.4	5.1	1.0
Total Horticultural Specialties	1.2	0.6	1.9
Ornamental Floral & Nursery	1.2	0.6	1.7
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	3.6	2.3	3.8
<b>Agricultural Production/Livestock</b>	<b>1.1</b>	<b>1.2</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.1	0.1	0.0
Beef Cattle Except Feed Lots	0.3	0.6	0.6
Dairy Farms	0.3	0.2	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.4	0.3	0.6
<b>Total Agricultural Services</b>	<b>7.2</b>	<b>4.2</b>	<b>7.5</b>
Soil Preparation Services	0.0	0.0	0.1
Crop Services	2.6	1.7	2.5
Plant Cultivate & Protection	1.0	0.4	0.7
Harvest Primarily by Machine	0.0	0.0	0.3
Preparation Services for Market	1.6	1.3	1.5
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	4.6	2.5	4.9
Farm Labor Contractors	4.6	2.5	4.5
Farm Management Services	0.0	0.0	0.4

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	May 1999	Apr 1999	May 1998
<b>Total Agriculture</b>	<b>7.88</b>	<b>8.03</b>	<b>7.26</b>
<b>Total Agricultural Production/Crops</b>	<b>7.75</b>	<b>7.84</b>	<b>7.09</b>
Cash Grains	7.96	7.75	7.35
Rice	8.17	8.43	7.29
Other Cash Grains	7.74	7.07	7.40
Field Crops Except Grains	7.38	8.51	7.20
Cotton	6.52	na	na
Other Field Crops	8.24	8.51	7.20
Vegetables and Melons	7.97	7.88	7.71
Total Fruits and Tree Nuts	7.38	7.10	6.47
Berries	na	na	na
Grapes	7.88	6.53	6.70
Tree Nuts	8.03	7.93	6.46
Citrus Fruits	na	na	na
Deciduous Tree Fruit	6.95	7.06	6.37
Other Fruits & Nuts	6.65	6.89	6.36
Total Horticultural Specialties	7.98	8.00	7.53
Ornamental Floral & Nursery	7.98	8.00	7.25
Food Crops Grown Under Cover	na	na	7.80
General Farm Primarily Crop	7.85	7.77	6.40
<b>Agricultural Production/Livestock</b>	<b>8.42</b>	<b>8.25</b>	<b>7.30</b>
Beef Cattle Feed Lots	9.03	8.66	na
Beef Cattle Except Feed Lots	8.43	8.55	8.25
Dairy Farms	8.79	8.75	6.80
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	7.42	7.02	6.85
<b>Total Agricultural Services</b>	<b>7.49</b>	<b>8.00</b>	<b>7.38</b>
Soil Preparation Services	na	na	8.25
Crop Services	8.51	8.52	7.82
Plant Cultivate & Protection	9.19	9.19	8.00
Harvest Primarily by Machine	na	na	8.00
Preparation Services for Market	7.83	7.85	7.45
Cotton Ginning	na	na	na
Total Farm Labor & Management	6.46	7.47	6.06
Farm Labor Contractors	6.46	7.47	6.12
Farm Management Services	na	na	6.00

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **March 1999 Agricultural Services employment data have been adjusted to reflect a recalculation of the survey sample results. Historical trend information was used to adjust sample data because of a low response rate. February 1999 Agricultural Services employment data were similarly adjusted.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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